

IN THE CLAIMS

Please amend the claims as follows. Presented below is a complete listing of claims in the revised format showing markings as set forth by the U.S. Patent and Trademark Office on January 31, 2003:

1. (Previously Presented) A touchpad device configurable to be a pointer control device and a fingerprint recognition device, the touchpad device comprising:
a detection array having a detection surface, wherein the detection surface is configured to receive a fingerprint image;

a processing device to receive image data from the detection array, the processing device further to configure the touchpad device to operate as the pointer control device to move a cursor or the fingerprint recognition device based upon parameters associated with the image data.

2. (Original) The touchpad device of claim 1, further comprising a fingerprint platform, wherein the fingerprint platform is configured to supply a fingerprint image to the detection surface of the detection array.

3. (Original) The touchpad device of claim 1, wherein the fingerprint platform comprises a sheet prism.

4. (Original) The touchpad device of claim 3, wherein the sheet prism is configured to focus the fingerprint image onto the detection surface of the detection array.

5. (Original) The apparatus of claim 1, wherein the touchpad device is configured to operate as a pointer control device or a fingerprint recognition device based upon an area parameter associated with the fingerprint image.

6. (Original) The apparatus of claim 5, wherein the touchpad device is configured to operate as a fingerprint recognition device when the area parameter associated with the fingerprint image corresponds to a first area median range.

7. (Original) The apparatus of claim 5, wherein the touchpad device is configured to operate as a pointer control device when the area parameter associated with the fingerprint image corresponds to a second area median range.

8. (Original) The apparatus of claim 1, wherein the touchpad device is configured to operate as a pointer control device or a fingerprint recognition device based upon a pattern parameter associated with the fingerprint images.

9. (Original) The apparatus of claim 8, wherein the touchpad device is configured to operate as a fingerprint recognition device when the pattern parameter associated with the fingerprint image conforms to a first pattern.

10. (Original) The apparatus of claim 9, wherein the first pattern corresponds to a full fingerprint pattern.

11. (Original) The apparatus of claim 8, wherein the touchpad device is configured to operate as a pointer control device when the pattern parameter associated with the fingerprint image conforms to a second pattern.

12. (Original) The apparatus of claim 11, wherein the second pattern corresponds to a finger-tip print pattern.

13. (Original) The apparatus of claim 1, wherein the processing device is configured to translate the position of the fingerprint image on the detection surface into

a cursor position on an interface area of a display when the touchpad device operates as a pointer control device.

14. (Original) The apparatus of claim 1, wherein the touchpad device is configured to operate as a pointer control device or a fingerprint recognition device based upon both a pattern parameter and an area parameter associated with the fingerprint image.

15. (Previously Presented) A multi-function device configurable to be a pointer control device and a fingerprint recognition device, the multi-function device comprising:

means for supplying a fingerprint image to a detection surface of a detection array;

means for processing the fingerprint image supplied to the detection array, wherein the means for processing configures the multi-function device to operate as the pointer movement control device or the fingerprint recognition device based upon parameters associated with the fingerprint image.

16. (Previously Presented) The multi-function device of claim 15, wherein the pointer control device controls movement of a cursor on a display screen.

17. (Original) The multi-function device of claim 15, wherein the multi-function device is configured to operate as a pointer control device or a fingerprint recognition device based upon an area parameter associated with the fingerprint image.

18. (Original) The multi-function device of claim 17, wherein the multi-function device is configured to operate as a fingerprint recognition device when the area parameter associated with the fingerprint image corresponds to a first area median range

19. (Original) The multi-function device of claim 17, wherein the multi-function device is configured to operate as a pointer control device when the area parameter associated with the fingerprint image corresponds to a second area median range.

20. (Original) The multi-function device of claim 15, wherein the multi-function device is configured to operate as a pointer control device or a fingerprint recognition device based upon a pattern parameter associated with the fingerprint images.

21. (Original) The multi-function device of claim 20, wherein the multi-function device is configured to operate as a pointer control device when the pattern parameter associated with the fingerprint image conforms to an average finger-tip pattern.

22. (Original) The multi-function device of claim 20, wherein the multi-function device is configured to operate as a fingerprint recognition device when the pattern parameter associated with the fingerprint image conforms to an average fingerprint pattern.

23. (Previously Presented) A method of analyzing a fingerprint image to configure the operation of a multi-function device, the multi-function device configurable to be a pointer movement control device and a fingerprint recognition device, the method comprising:

- supplying a fingerprint image to a detection surface of a detection array;
- analyzing select fingerprint parameters associated with the fingerprint image;
- configuring the multi-function device to operate as the pointer movement control device or the fingerprint recognition device based upon the fingerprint parameters associated with the fingerprint image.

24. (Original) The method of claim 23, wherein the multi-function device is configured to operate as a pointer control device or a fingerprint recognition device based upon an area parameter associated with the fingerprint image.

25. (Original) The method of claim 24, wherein the multi-function device is configured to operate as a fingerprint recognition device when the area parameter associated with the fingerprint image corresponds to a full fingerprint image.

26. (Original) The method of claim 24, wherein the multi-function device is configured to operate as a pointer control device when the area parameter associated with the fingerprint image corresponds to a finger-tip print image.

27. (Original) The method of claim 23, wherein the multi-function device is configured to operate as a pointer control device or a fingerprint recognition device based upon an pattern parameter associated with the fingerprint images.

28. (Original) The method of claim 27, wherein the multi-function device is configured to operate as a fingerprint recognition device when the pattern parameter associated with the fingerprint image conforms to an average fingerprint pattern.

29. (Original) The method of claim 27, wherein the multi-function device is configured to operate as a pointer control device when the pattern parameter associated with the fingerprint image conforms to an average finger-tip pattern.

30. (Original) The method of claim 23, further comprising:
translating the position of the fingerprint image supplied to the detection surface of the detection array into a cursor position on an interface area of a display when the multi-function device is configured to operate as a pointer control device.

31. (Original) The method of claim 23, further comprising:
performing fingerprint authentication on the fingerprint image supplied to the detection surface of the detection array when the multi-function device is configured to operate as a fingerprint recognition device.